

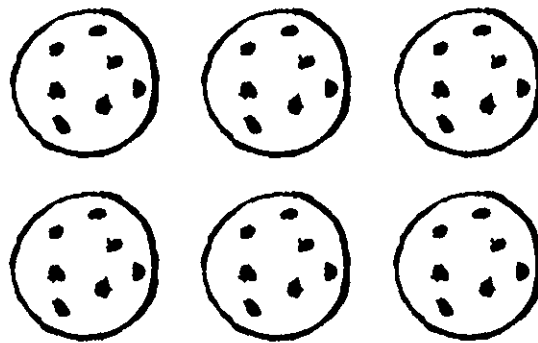
Snack Time

Teaching Goal

After participating in this lesson, students will be able to use a number of tools such as their experiences, prior knowledge, and individual preferences to solve the problem. Students will also be able to support their answer using logic and reasoning.

Problem

Sarah and Sam were ready to have their afternoon snack. They each had 3 cookies. Two friends joined them. Sarah and Sam decided to share their cookies with their friends. How could they have divided the cookies so that each person had the same amount?



Teaching Plan

1. Present the problem to the students.
2. Have the students read the problem.
3. Lead a whole group discussion. Consider using the following questions as part of the discussion:

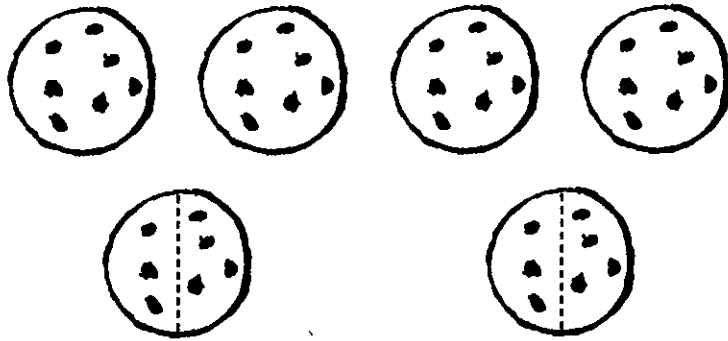
What important information is given in the problem?

There are 6 cookies and 4 people.

How would you divide the cookies?

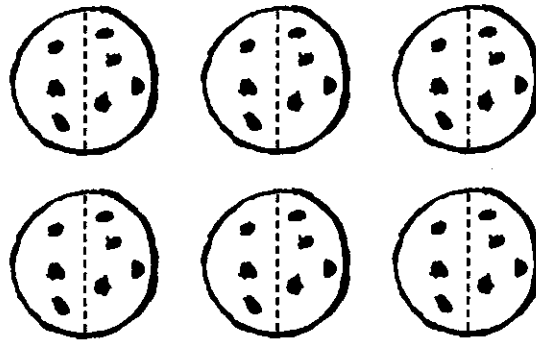
Answers may include:

- a) suggesting each person takes 1 whole cookie and divide up the two remaining cookies



Each person gets one whole cookie and one half of a leftover.

- b) suggesting all 6 cookies be divided in 12 equal parts (halves)



Each person gets 3 halves.

Why did you choose to divide the cookies the way you did?

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Since the problems in this section are somewhat open-ended, there may be a variety of strategies and solutions. It is important to encourage the students to choose a solution that they can defend.

Problem 1 Hamster Vacation

The third grade class has 15 hamsters.

Connie must put them into 4 cages to go home for the summer vacation. No cage can have fewer than 3 hamsters. How should she divide the hamsters?

- 1.** Show how would you put the hamsters into the 4 cages.

- 2.** Explain why you put the hamsters in the cages this way.
